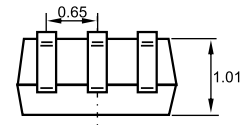
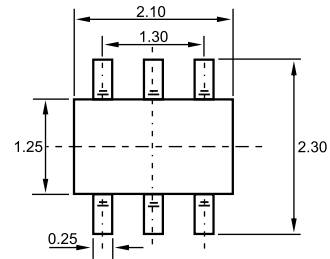


SOT-363



Dimensions in inches and (millimeters)

Features

- ✧ Fast switching speed.
- ✧ For general purpose switching application.
- ✧ Ultra-small surface mount package.
- ✧ High conductance.

Applications

- ✧ For general purpose switching application.

Ordering Information

| Type No. | Marking | Package Code |
|----------|---------|--------------|
| BAV99BRW | KGJ | SOT-363 |

MAXIMUM RATING @ Ta=25°C unless otherwise specified

| Symbol | Characteristic | Value | Unit |
|---------------------------------|---|-------------|------|
| V_{RM} | Non-Repetitive Peak Reverse Voltage | 100 | V |
| V_{RRM} V_{RWM} V_R | Peak repetitive reverse voltage Working peak reverse voltage DC reverse voltage | 75 | V |
| $V_{R(RMS)}$ | RMS Reverse voltage | 53 | V |
| I_F | Forward continuous current | 300 | mA |
| I_O | Average rectified output current | 150 | A |
| I_{FSM} | Non-Repetitive Peak Forward Surge Current @t=1.0us @t=1.0s | 2.0 1.0 | A |
| P_D | Power Dissipation | 200 | mW |
| $R_{\theta JA}$ | Thermal Resistance, Junction to Ambient | 625 | °C/W |
| T_j, T_{stg} | Junction and Storage Temperature | -65 to +150 | °C |

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

| Parameter | Symbol | Test conditions | MIN | MAX | UNIT |
|---------------------------|-------------|--|-----|-------------------------------|-------------------------------------|
| Reverse breakdown voltage | $V_{(BR)R}$ | $I_R=2.5\mu A$ | 75 | | V |
| Forward voltage | V_F | $I_F=1.0mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$ | | 0.715 0.855 1.0 1.25 | V |
| Reverse current | I_R | $V_R=75V$ $V_R=75V, T_j=150^\circ C$ $V_R=25V, T_j=150^\circ C$ $V_R=20V$ | | 2.5 50 30 25 | μA μA μA nA |
| Total Capacitance | C_J | $V_R=0V, f=1.0MHz$ | | 2.0 | pF |
| Reverse Recovery time | t_{rr} | $I_F=I_R=10mA, I_{rr}=0.1 \cdot I_R,$ $R_L=100\Omega$ | | 4.0 | ns |

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

